FIG. 1

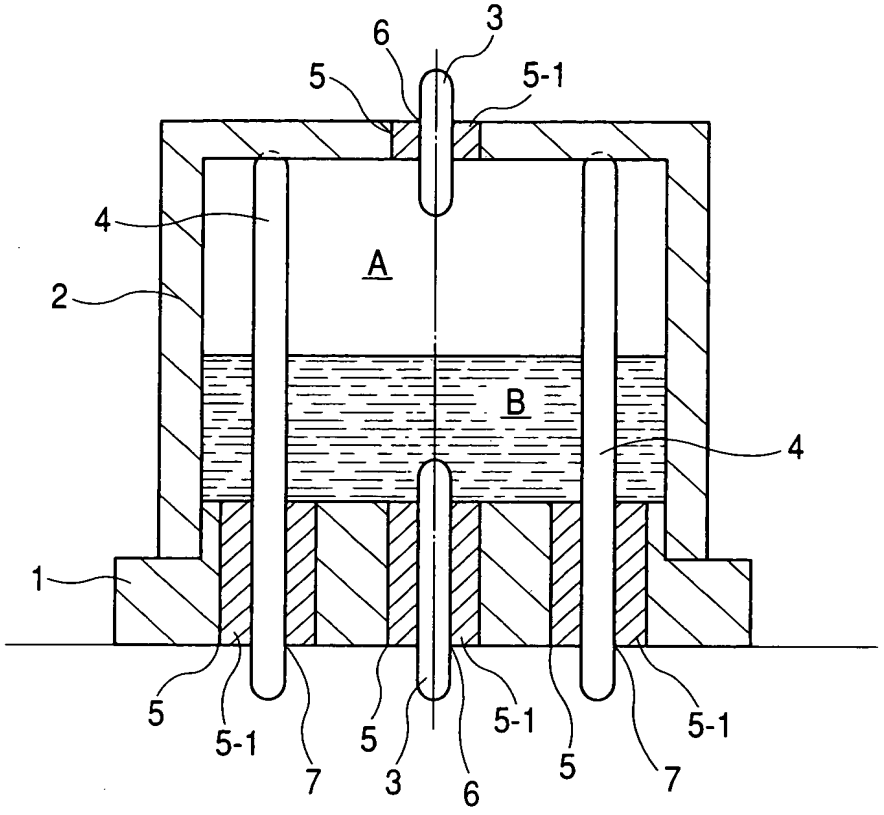


FIG. 2

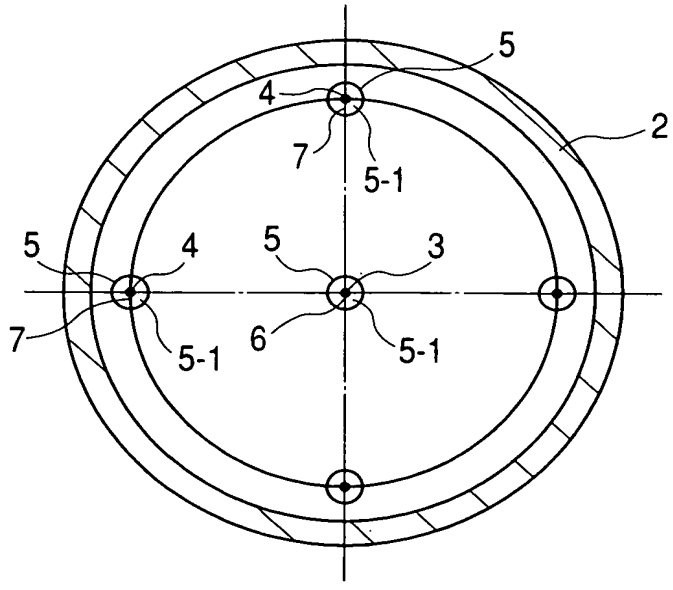


FIG. 3

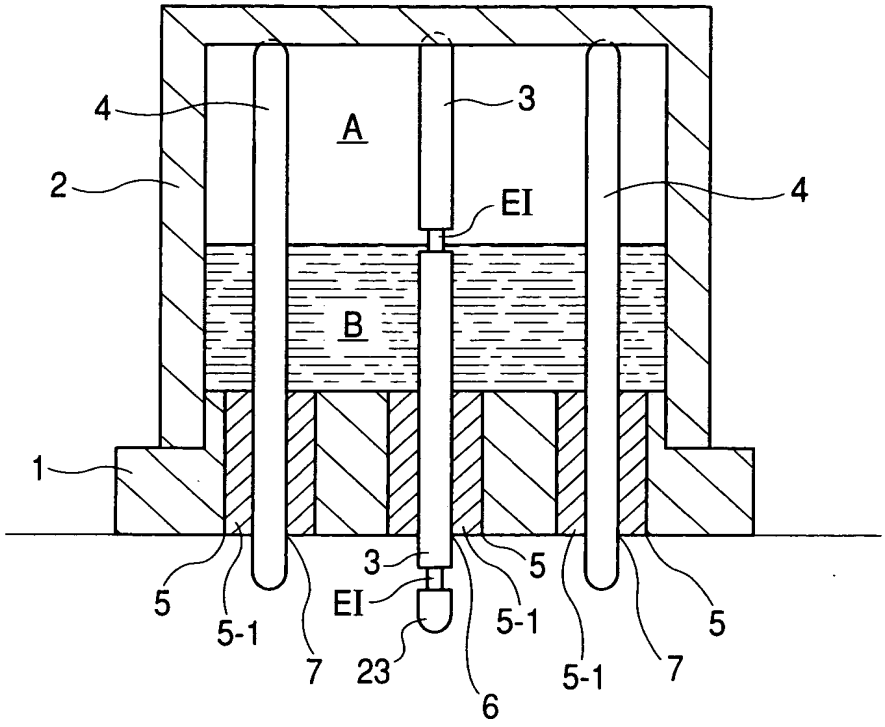

4
A
3
2
EI
4
B
1
5
5-1
7
3
EI
23
6
5
5-1
5-1
7
5

FIG. 4

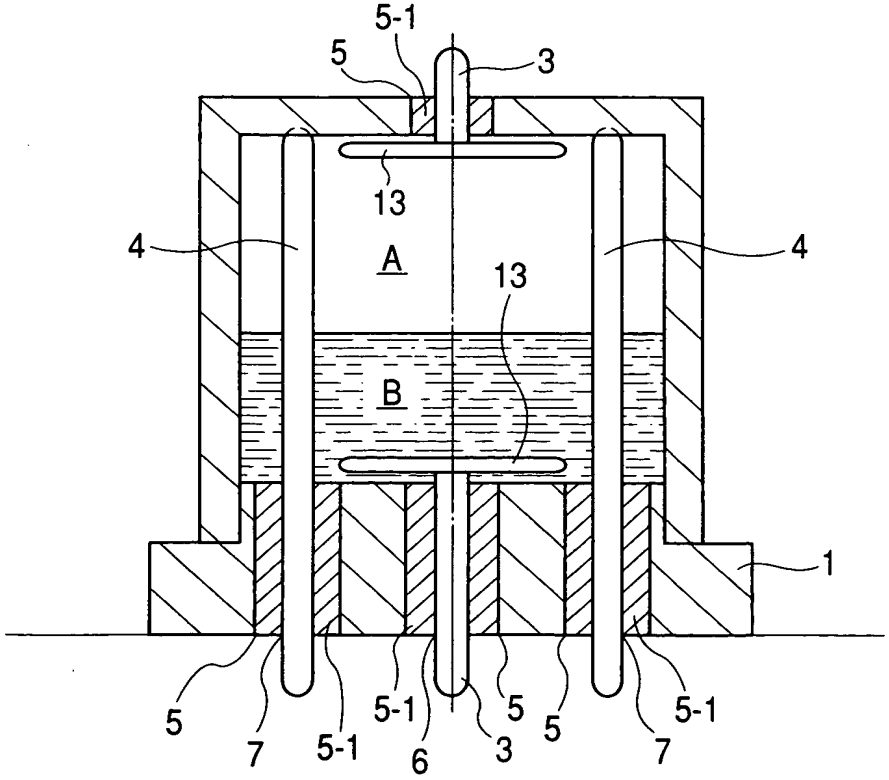

5-1
5
3
13
4
A
13
4
B
1
5
7
5-1
5-1
6
3
5
5
5-1
7

FIG. 5

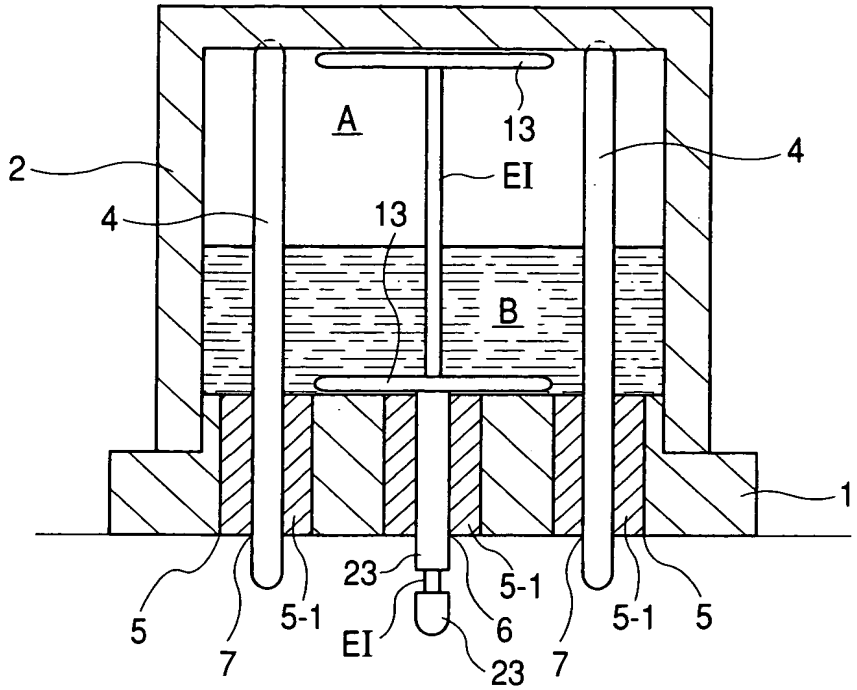

A
13
EI
2
4
4
13
B
1
23
5-1
5
5-1
EI
6
5-1
5
7
23
7

FIG. 6

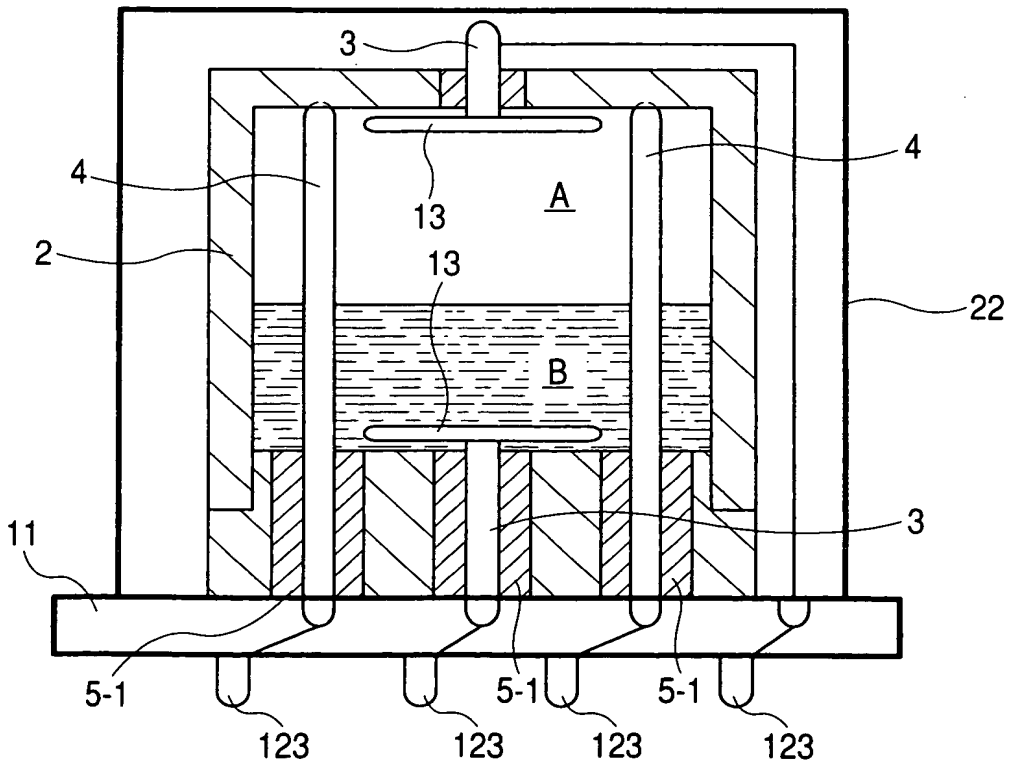

3
4
4
13
A
2
13
22
B
11
3
5-1
5-1
5-1
123
123
123
123

FIG. 7

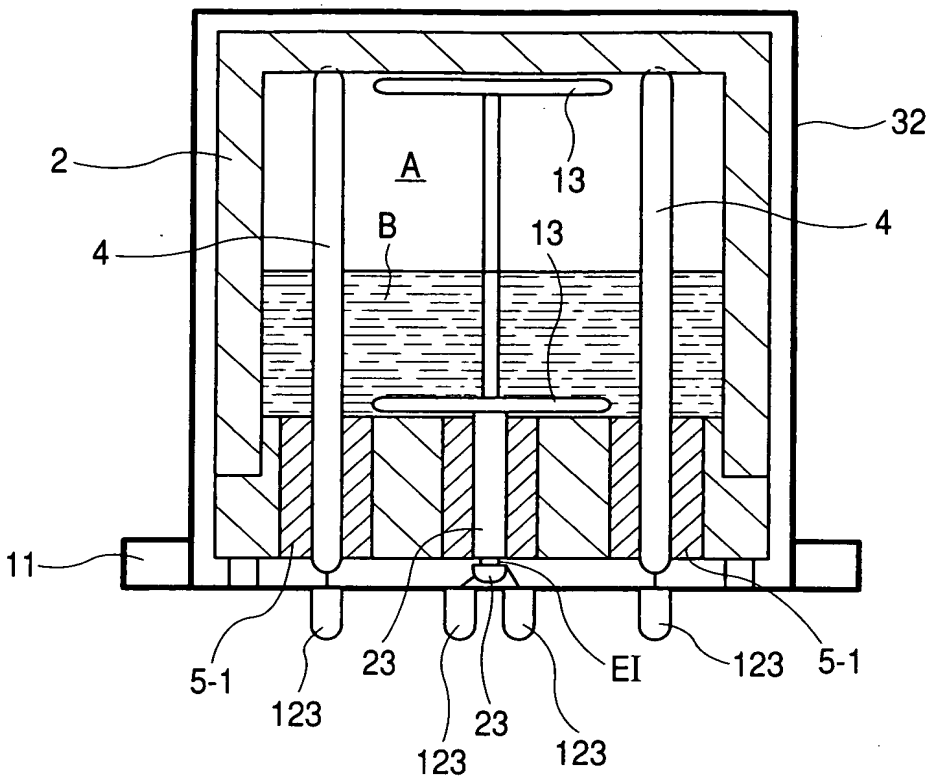


FIG. 8

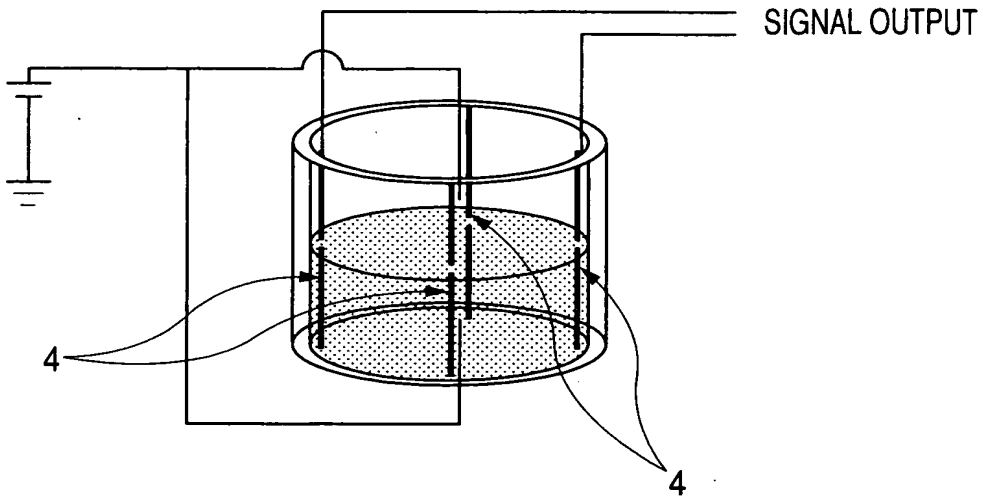


FIG. 9

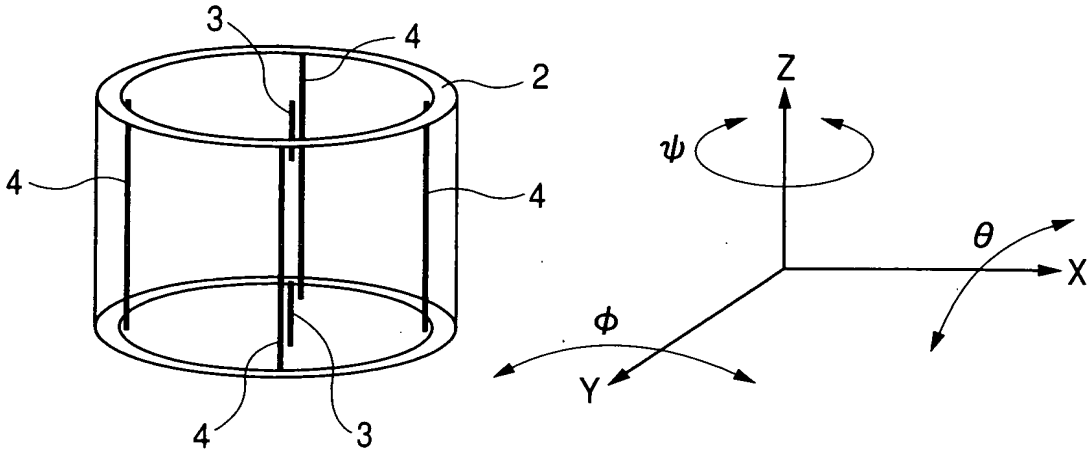


FIG. 10

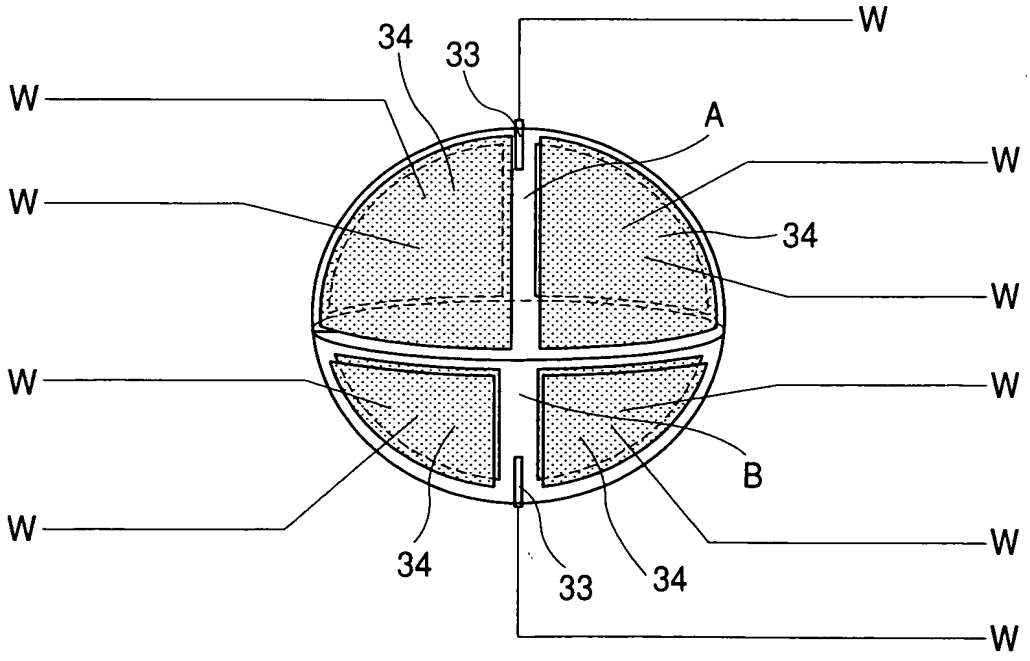


FIG. 11

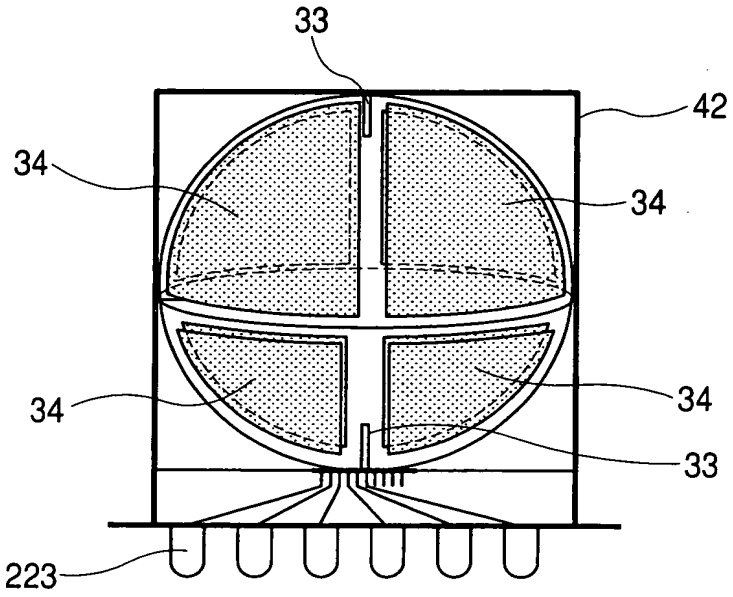

33
42
34
34
34
34
33
223

FIG. 12

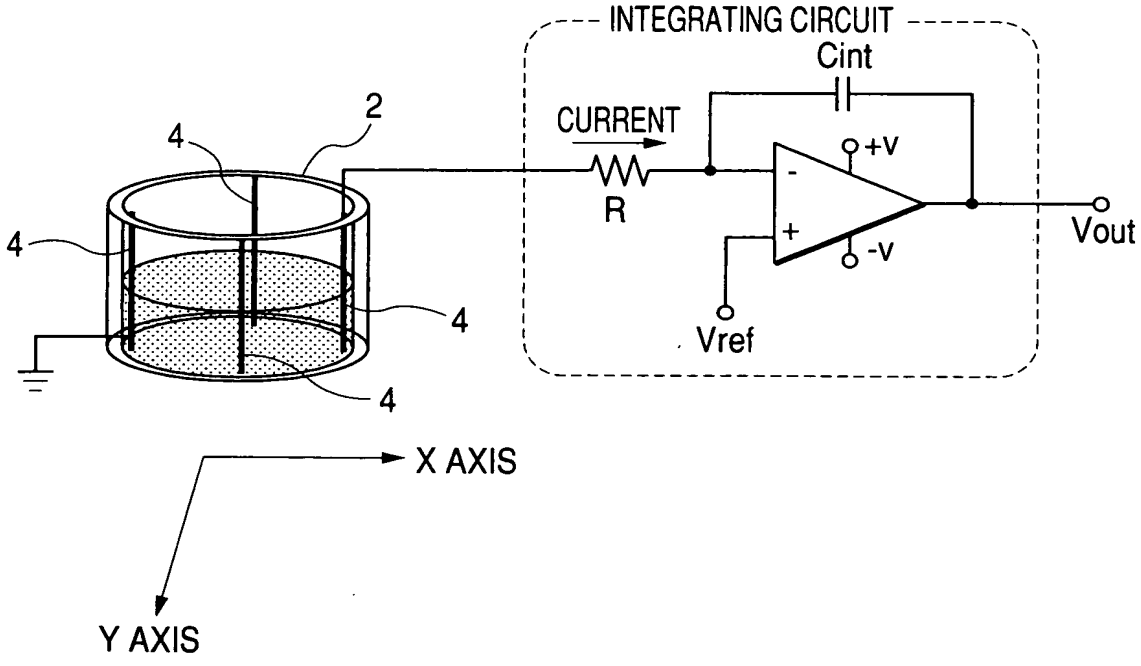

INTEGRATING CIRCUIT
Cint
CURRENT
R
+V
-V
Vout
Vref
2
4
4
4
4
4
X AXIS
Y AXIS

FIG. 13

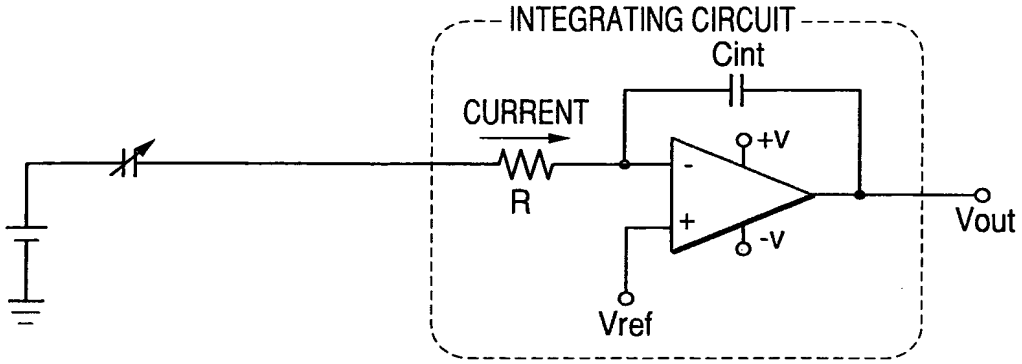

INTEGRATING CIRCUIT
Cint
CURRENT
R
+V
-V
Vout
Vref

FIG. 14

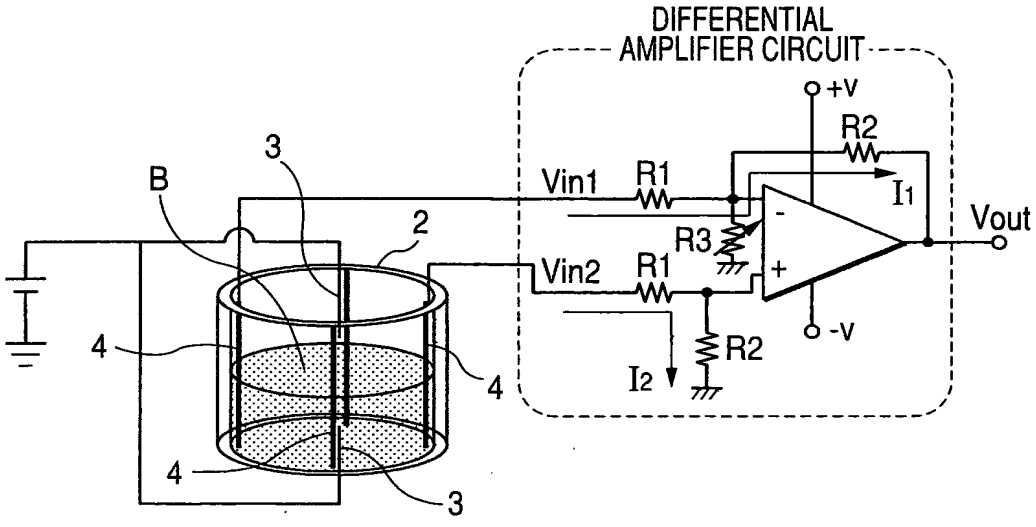

DIFFERENTIAL
AMPLIFIER CIRCUIT
+V
R2
Vin1
R1
I1
Vout
R3
Vin2
R1
-V
R2
I2
B
3
2
4
4
4
3

FIG. 15

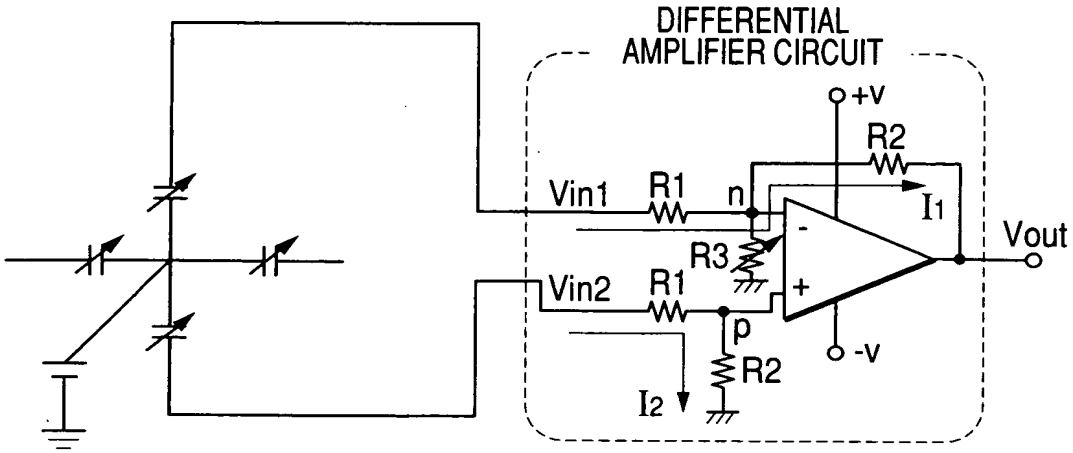


FIG. 16

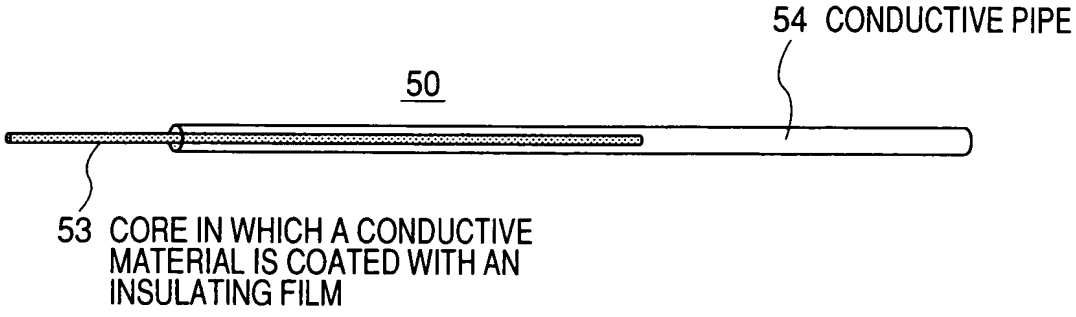


FIG. 17

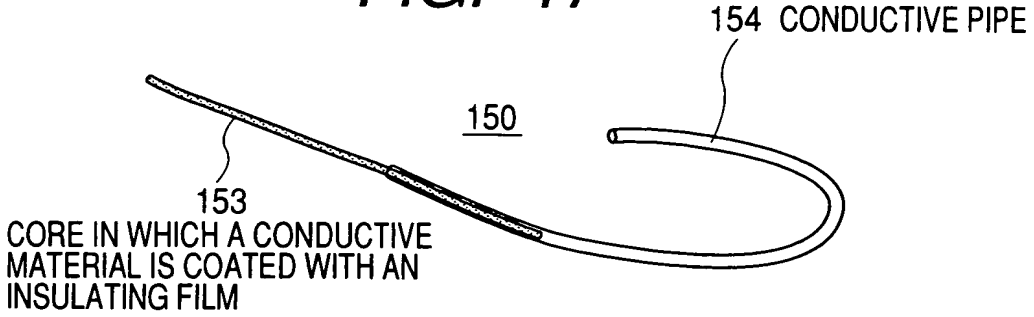


FIG. 18

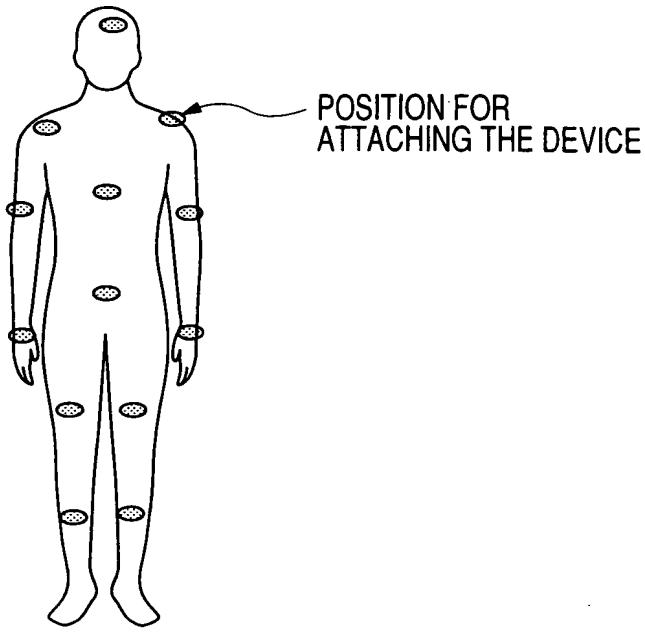

POSITION FOR
ATTACHING THE DEVICE

FIG. 19

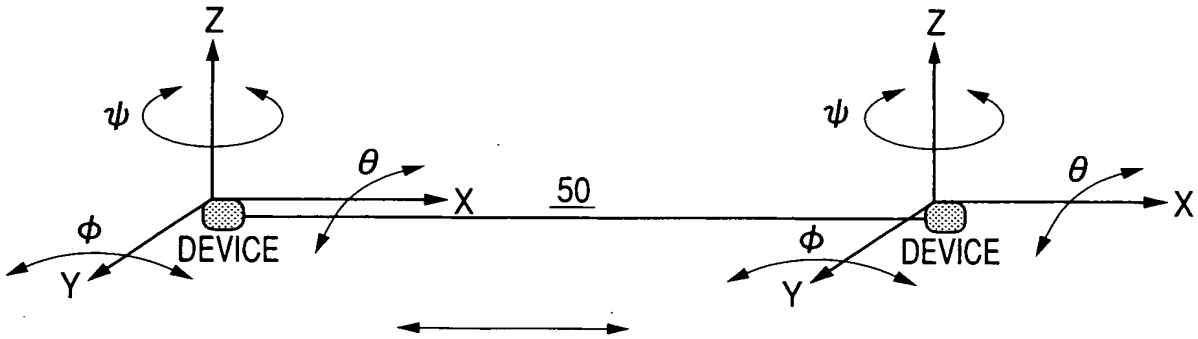

Z
ψ
θ
X
50
Φ
DEVICE
Y
Z
ψ
θ
X
Φ
DEVICE
Y

FIG. 20

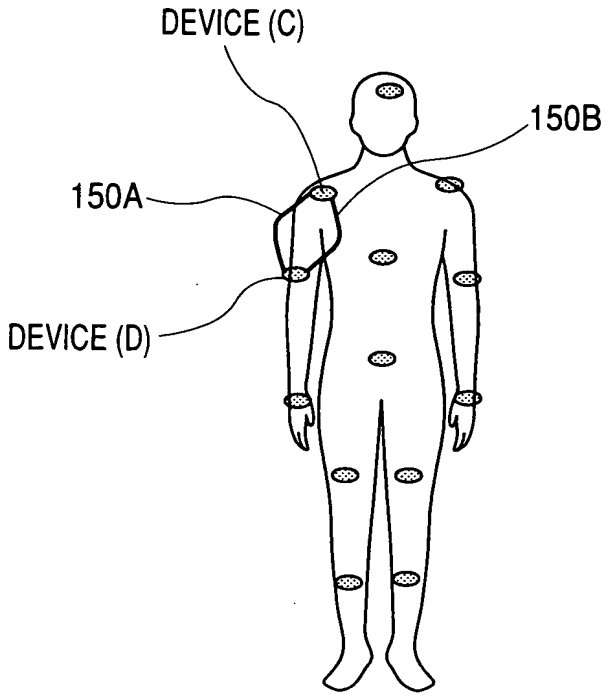

DEVICE (C)
150B
150A
DEVICE (D)

FIG. 21

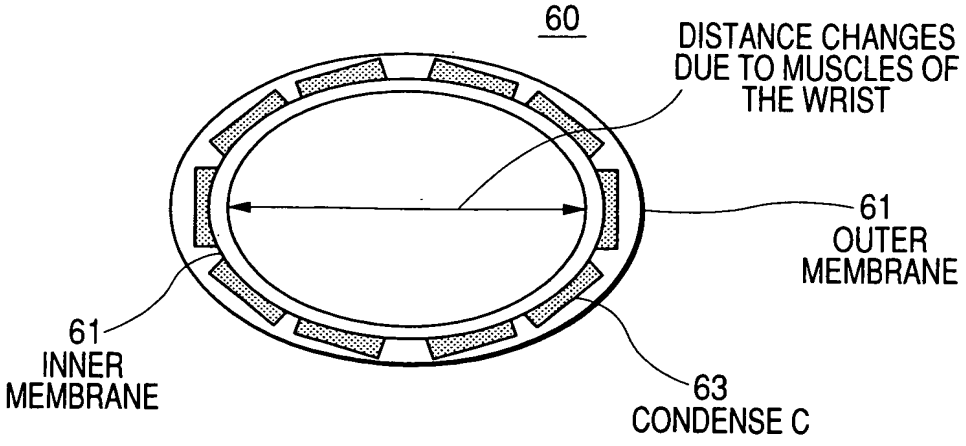

60
DISTANCE CHANGES DUE TO MUSCLES OF THE WRIST
61
OUTER MEMBRANE
61
INNER MEMBRANE
63
CONDENSE C

FIG. 22

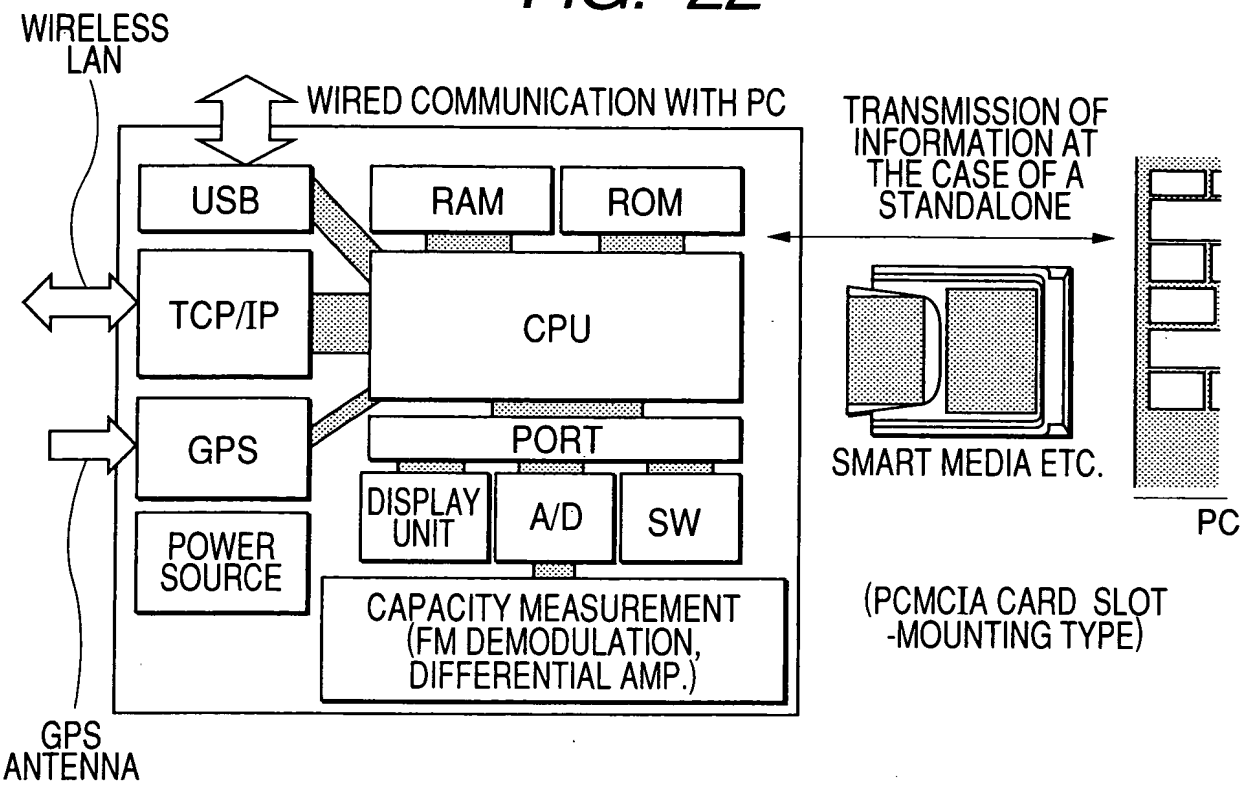
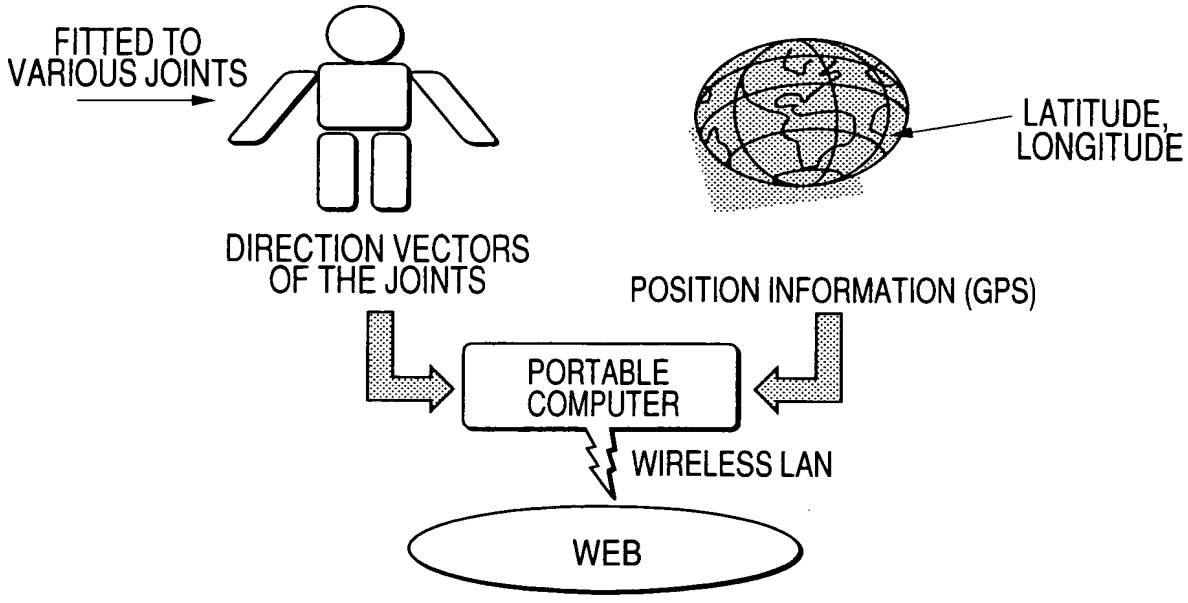

WIRELESS LAN
WIRED COMMUNICATION WITH PC
TRANSMISSION OF INFORMATION AT THE CASE OF A STANDALONE
USB
RAM
ROM
TCP/IP
CPU
GPS
PORT
DISPLAY UNIT
A/D
SW
POWER SOURCE
CAPACITY MEASUREMENT (FM DEMODULATION, DIFFERENTIAL AMP.)
SMART MEDIA ETC.
PC
(PCMCIA CARD SLOT -MOUNTING TYPE)
GPS ANTENNA

FIG. 23


FITTED TO VARIOUS JOINTS
LATITUDE, LONGITUDE
DIRECTION VECTORS OF THE JOINTS
POSITION INFORMATION (GPS)
PORTABLE COMPUTER
WIRELESS LAN
WEB